

00322T-26264250

106

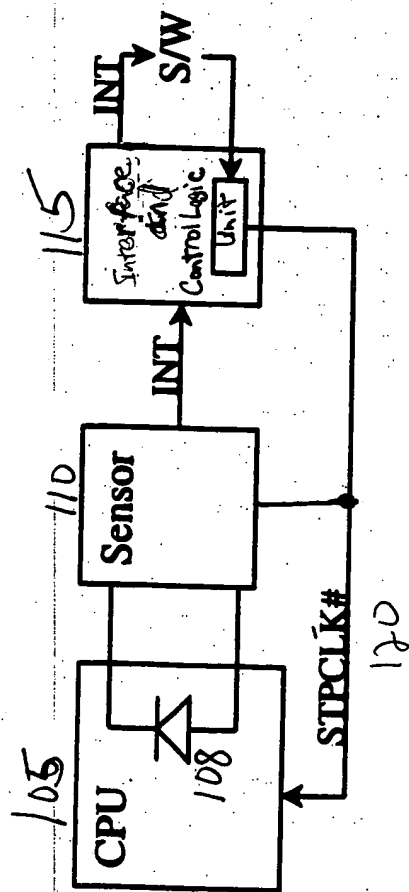


FIG. 1

000001-2064450

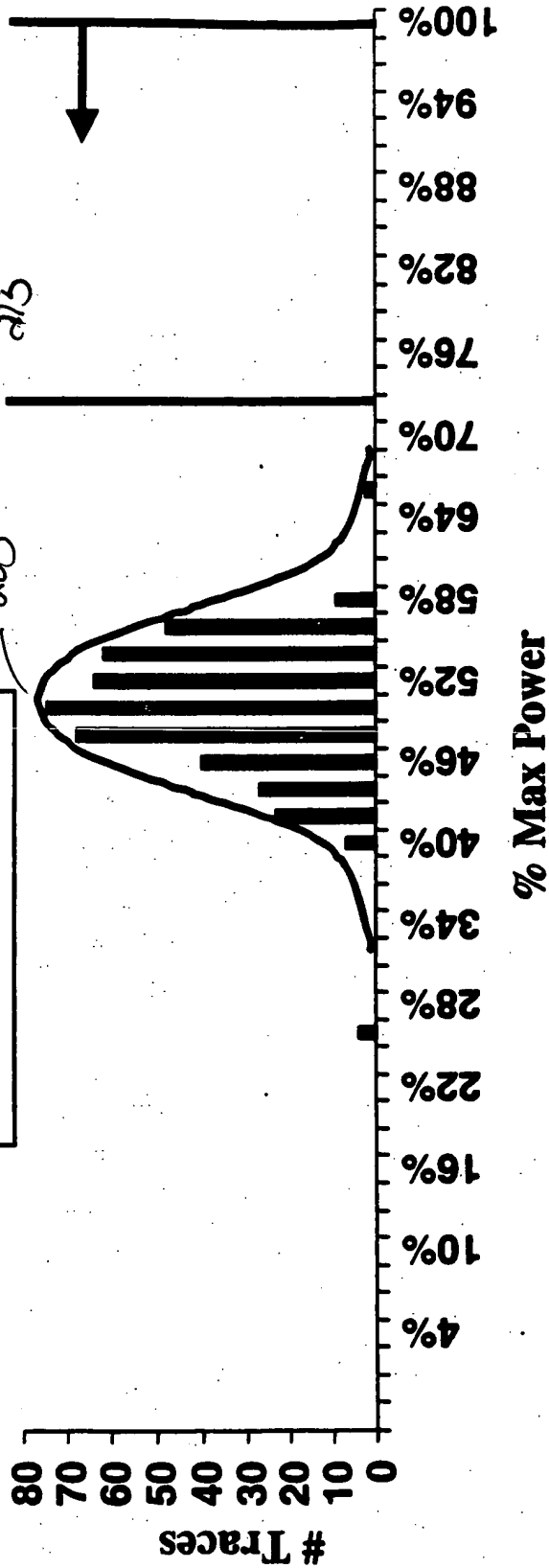
700

← 240 →

Most programs consume average power far below the maximal thermal power limit

Real high power apps

Max Power 2/10



F562

SECRET

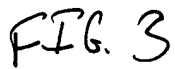


FIG. 3

008223F" 26264260

400

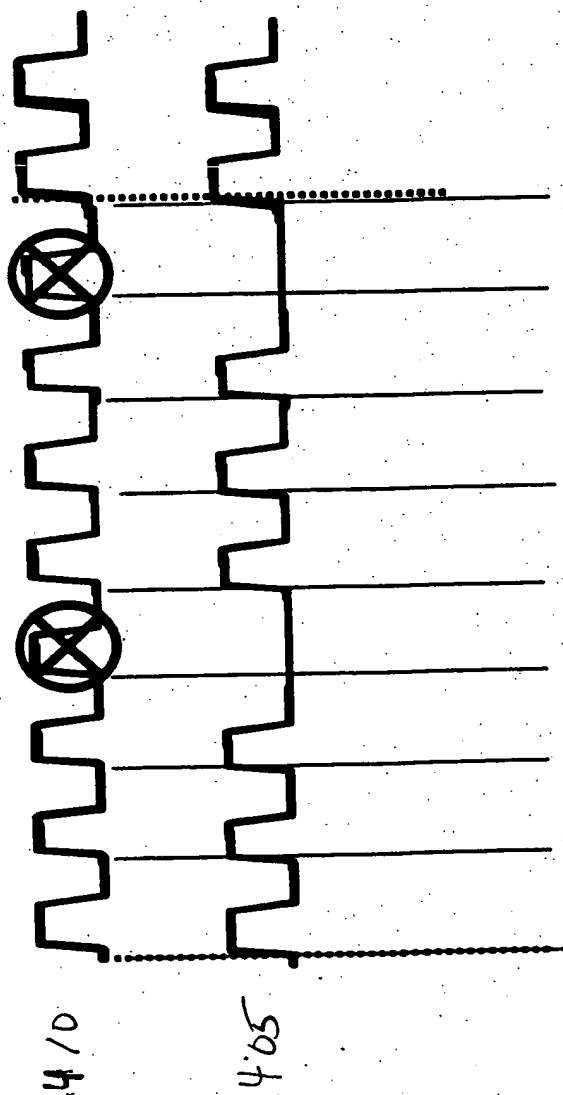


Figure 4

500

FFRL_EN	dT/dt	Thermal temperature	Current logic state	Prev. logic state
0 (not near maximal thermal limit)	Not Care	Not Care	Power down	Power down
0 (not near maximal thermal limit)	Not Care	Not Care	Power down	Wait
0 (not near maximal thermal limit)	Not Care	Not Care	Power down	Active
1 (near maximal thermal limit)	<0.2 (slow rate)	<max. temperature - δt	Power down	Power down
1 (near maximal thermal limit)	>0.2 (slow rate)	<max. temperature - δt	Wait	Power down
1 (near maximal thermal limit)	<0.2 (slow rate)	<max. temperature - δt	Power down	Wait
1 (near maximal thermal limit)	>0.2 (slow rate)	<max. temperature - δt	Wait	Wait
1 (near maximal thermal limit)	Not Care	>max. temperature - δt	Active	Power down
1 (near maximal thermal limit)	Not Care	>max. temperature - δt	Active	Wait
1 (near maximal thermal limit)	Not Care	>max. temperature - δt	Active	Active

FIG 5.

00000000

609

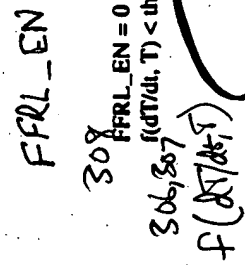


Figure 6